Docket No. 243667US2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Takashi HIROSAWA

SERIAL NO: 10/679,460 GAU: 2661

FILED: October 7, 2003 EXAMINER:

FOR: METHOD OF CONTROLLING COMMUNICATIONS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

■ The applicant(s) wish to make of record the references cited in the attached Korean Office Action and listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.

☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.

☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

■ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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STATEMENT OF RELEVANCY

Reference AO on Form PTO-1449:

A back-off mode is effective in determining deferent delay time by priorities of message to be transferred in order to avoid collision of message. The back-off algorithm according to the present invention is explained referring to a flow chart shown in Fig. 5.

When a collision occurs in transmitting messages, and it is unable to transmit message properly, it is informed that it enters into a back-off mode (step 501). When it enters into the back-off mode, a back-off counting value k indicating message retransmission number of times is increased by using counter (step 502).

Then, the increased back-off counting value k is compared with an initialized message retransmission limit value (Kmax) (step 503). The message retransmission limit value (Kmax) indicates the maximum number of times to be able to retransmit messages when a collision occurs in transmitting messages.

As a result of the step 503, when the increased back-off counting value k is more than equal to the message retransmission limit value (Kmax), retransmission of messages is abandoned due to excess of the maximum number of times of retransmission (step 504).

On the other hand, as a result of the step 503, when the increased back-off counting value k is smaller than the message retransmission limit value (Kmax), a priority value P for messages to be transmitted is read out since the chances to retransmit messages are still left (step 505). The priority value P is subdivided according to the kind of message frame to be set in many different values.

Then, a real number n is provided by random function within a predetermined range calculated by using the back-off counting value k and the priority value P. More specifically, the real number n is generated by the value selected by random function within a range of $2^P < n < 2^{\min(P+K, Kmax)}$ (step 506). A real delay time BOT is calculated by multiplying the real number n generated in the step 506 by slot time (step 507). Finally, the back-off mode has finished after delaying only the real delay time BOT calculated in the step 507 in order to hold message transmission (step 508).

Form PTO 1449 (Modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT

ATTY DOCKET NO.	SERIAL NO.
243667US2	10/679,460
APPLICANT	
Takashi HIROSAWA	
FILING DATE	**GROUP**
October 7, 2003	2661

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	AO	10-2001-0039385	5/15/2001	Korea		X
	AP					
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	
	AX	
	AY	
	AZ	☐ Additional References sheet(s) attached

Examiner	Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.